ABSTRACT OF THE DISCLOSURE

An electrophoresis chip is provided, which facilitates injection of a very small quantity of samples. A hydrophobic region 62, a thin and long hydrophilic region, electrodes 67a and 67b are formed on a surface of a substrate 61. The hydrophilic region, and the electrodes are surrounded with the hydrophobic region 62. A gel 64 is formed in the hydrophilic region by dropping and superposing gel precursor solution. A slit 65 for sample addition is provided in the midway of the gel. A droplet 72 of sample solution is adhered to a tip of a needle 71 and, when the droplet is passed through the slit 65 in contact with the hydrophobic region 62, the droplet of the needle connects the gel 64 in such a way as to bury the slit 65 of the gel 64. Then, electrophoresis is carried out by applying electric fields to the electrodes 67a and 67b.